Clarion®

Owner's manual
Mode d'emploi
Manual de instrucciones

ADX5655z

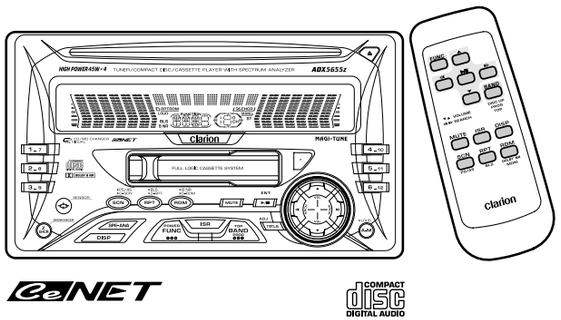
AM/FM CD/CASSETTE PLAYER WITH CD/MD CHANGER CONTROL

•

RADIO AM/FM-LECTEUR CD/CASSETTE AVEC PILOTAGE DE CHANGEUR CD/MD

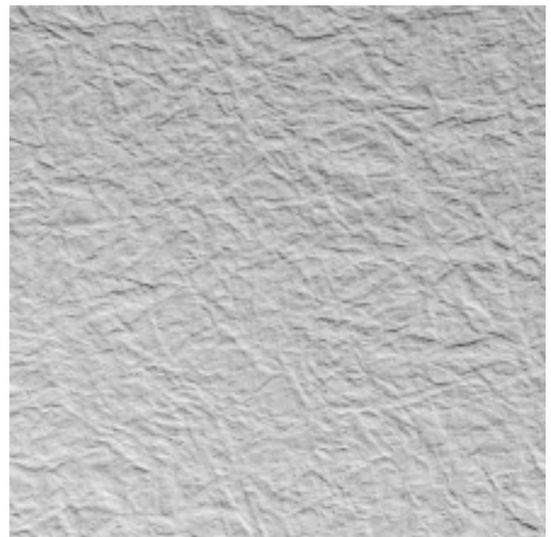
•

RADIO DE AM/FM Y REPRODUCTOR DE CD/CASETES CON CONTROL DE CAMBIADOR DE CD/MD



eNET

COMPACT disc DIGITAL AUDIO



Clarion Co., Ltd.

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2000/2 (D/To•C)

PE-2322B
280-7452-00

English

Français

Español

Thank you for purchasing the **Clarion** Product.

* Please read this owner's manual in its entirety before operating this equipment.
* After reading this manual, be sure to keep it in a handy place (e.g., glove compartment).
* Check the contents of the enclosed warranty card and keep it carefully with this manual.
* This manual includes the operating procedures of the CD changer, MD changer and TV connected via the CeNET cable. The CD changer, MD changer and TV tuner have their own manuals, but no explanations for operating them are described.

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1. FEATURES

- 8-Times Oversampling Digital Filter and Dual 1-Bit D/A Converters
- Zero-Bit Detector™ Mute Circuit
- Full Logec Tape Transport with True Function / Auto Reverse with Dual Azimuth Adjust
- Dolby® B Noise Reduction
- MAGI-TUNE® FM Reception System
- Controller for Optional TV Tuner Modules
- Capability to Read CD TEXT Data from Clarion Compatible CD Changer
- Z-Enhancer with 3 Adjustment Modes
- Repeat / Random Play / Intro Music Scan
- CeNET with Balanced Audio Line Transmission and Dynamic Noise Canceling
- Multi-color FL Display
- Bass Control Center Frequency : 30Hz / Boost Level : ±13dB
- 4-Channel RCA Line Level Output with Fader Control
- 180W(45W×4) Maximum Power Output

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1. FEATURES

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- 4-Channel RCA Line Level Output with Fader Control
- 180W(45W×4) Maximum Power Output

2. PRECAUTIONS

1. When the inside of the car is very cold and the player is used soon after switching on the heater, moisture may form on the disc or the optical parts of the player and proper playback may not be possible. If moisture forms on the disc, wipe it off with a soft cloth. If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.
2. Driving on extremely bumpy roads which cause severe vibration may cause the sound to skip.
3. This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.

English

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help.

⚠CAUTION

USE OF CONTROLS, ADJUSTMENTS, OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN, MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANUFACTURER FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

INFORMATION FOR USERS:

CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL.

MODEL Clarion

12V ⊖ GROUND
AM 530-1710kHz/FM 87.9-107.9MHz

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) This device may not cause harmful interference,and (2) This device must accept any interference received, including interference that may cause undesired operation.

This Production complies DHHS Rules 21 CFR subchapter J applicable at date of manufacture.

CLARION CO.,LTD.
50 KAMITODA , TODA-SHI, SAITAMA-KEN, JAPAN.

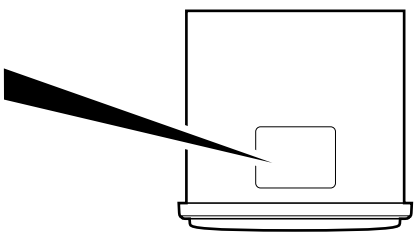
MANUFACTURED:

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

051 722 877

SERIAL No.
PE-

286-
Clarion Co.,Ltd.
MADE IN J



Bottom View of Source Unit

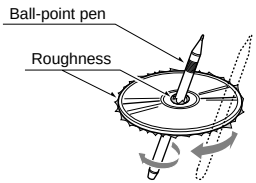
Handling Compact Discs

Use only compact discs bearing the COMPACT DISC DIGITAL AUDIO mark.

Do not play heart-shaped, octagonal, or other specially shaped compact discs.

Handling

- New discs may have some roughness around the edges. If such discs are used, the player may not work or the sound may skip. Use a ball-point pen or the like to remove any roughness from the edge of the disc.



- Never stick labels on the surface of the compact disc or mark the surface with a pencil or pen.
- Never play a compact disc with any cellophane tape or other glue on it or with peeling off marks. If you try to play such a compact disc, you may not be able to get it back out of the CD player or it may damage the CD player.
- Do not use compact discs that have large scratches, are misshapen, cracked, etc. Use of such discs may cause misoperation or damage.
- To remove a compact disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.
- Do not use commercially available CD protection sheets or discs equipped with stabilizers, etc. These may damage the disc or cause breakdown of the internal mechanism.

Storage

- Do not expose compact discs to direct sunlight or any heat source.
- Do not expose compact discs to excess humidity or dust.
- Do not expose compact discs to direct heat from heaters.

Cleaning

- To remove fingermarks and dust, use a soft cloth and wipe in a straight line from the center of the compact disc to the circumference.
- Do not use any solvents, such as commercially available cleaners, anti-static spray or thinner to clean compact discs.
- After using special compact disc cleaner, let the compact disc dry off well before playing it.

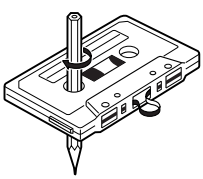
Handling Cassette Tapes

Using any of the following types of cassette tapes can cause malfunctions.

- Cassette tapes with low recording levels
- Cassette tapes in which the unrecorded section between songs is shorter than 4 seconds
- Cassette tapes with noise or the like recorded between songs
- Cassette tapes on which there are long unrecorded sections in the middle of a song

Handling precautions

- Slack in the tape can cause malfunctions. In particular for prerecorded cassette tapes and 90-minute tapes, take up any slack in the tape before inserting it into the cassette player.



- Avoid using cassettes of 120 minutes or longer. (Such cassettes have extremely thin tape, so the tape can become stretched or cut.)
- Periodically play a cleaning cassette in the player to clean the head.
- Keep magnets, screwdrivers, and other iron and steel and magnetic items away from both cassette tapes and the tape head in the player.
- Do not oil the cassette mechanism.
- Do not use any cassette tapes with peeling labels or deformed cases. Such cassette tapes can cause breakdowns.
- When not using the player, always take the cassette out of the mechanism. Exposing a cassette to direct sunlight, extreme temperatures, or high humidity can damage the cassette.

Be sure to unfold and read the next page.
Veuillez déplier et vous référer à la page suivante.
Cerciórese de desplegar y de leer la página siguiente.

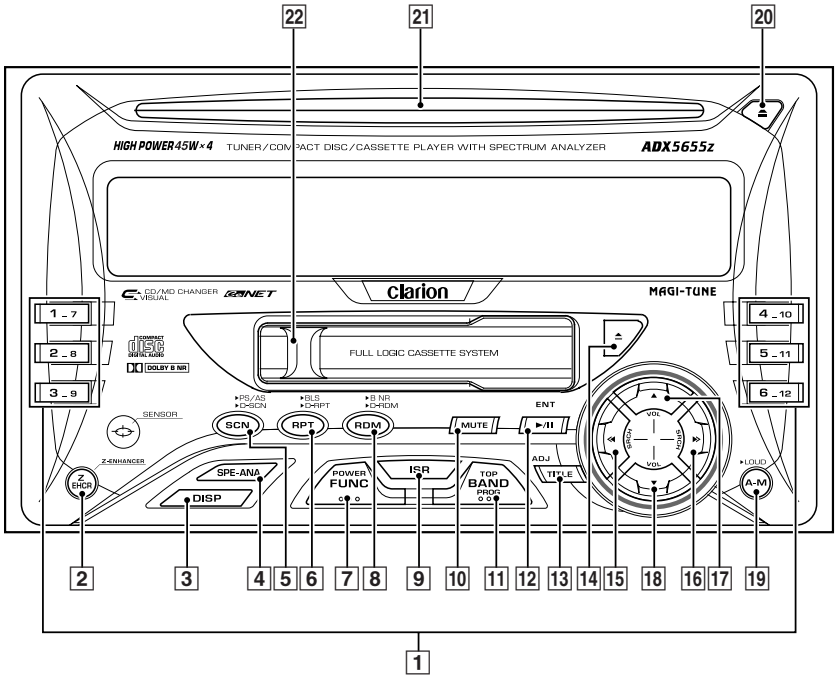
English

Français

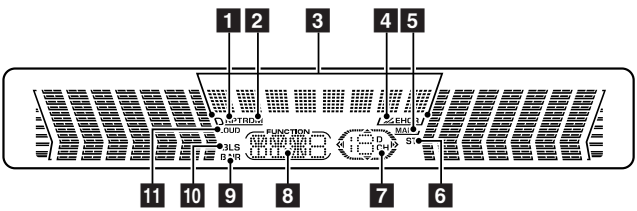
Español

3. CONTROLS / LES COMMANDES / CONTROLES

Source unit / Appareil pilote / Unidad fuente



Display / Afficheur / Visualizador



Note: *Be sure to unfold this page and refer to the front diagrams as you read each chapter.*
Remarque: *Veuillez déplier cette page et vous référer aux schémas quand vous lisez chaque chapitre.*
Nota: *Cuando lea los capítulos, despliegue esta página y consulte los diagramas.*

4. NOMENCLATURE

Note:

*• Be sure to read this chapter referring to the front diagrams of chapter "**3. CONTROLS**" on page 5 (unfold).*

English

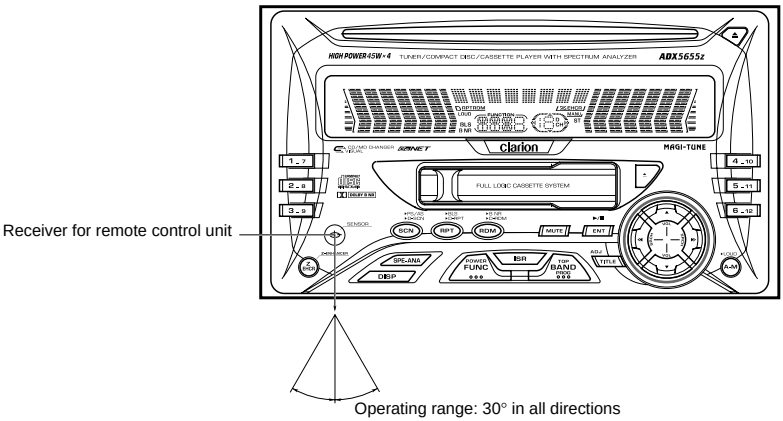
Names of Buttons

1. Preset buttons (1 to 6)
   Direct buttons (1 to 6) (7 to 12)
2. Z-EHCR (z-enhancer) button
3. DISP (display) button
4. SPE-ANA (spectrum analyzer) button
5. SCN (scan) button
   PS/AS (preset scan/auto store) button
6. RPT (repeat) button
   BLS (blank skip) button
7. POWER button
   FUNC (function) button
8. RDM (random) button
   B NR (Dolby NR) button
9. ISR (instant station recall) button
10. MUTE button
11. BAND (band) button
    TOP button
    PROG (programe) button
12. ENT (enter) button
    Play/pause button
13. TITLE button
    ADJ (adjust) button
14. TAPE EJECT button
15. Left button
16. Right button
17. Up button
18. Down button
19. A-M (audio mode) button
    LOUD (loudness) button
20. CD EJECT button
21. CD insertion slot
22. Cassette tape insertion slot

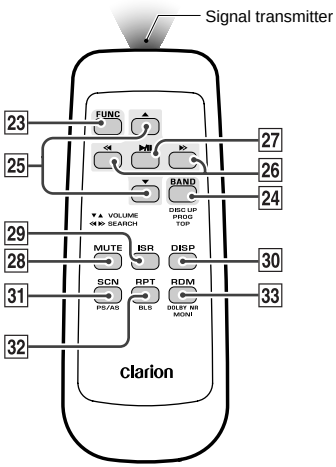
Display Items

1. RPT (repeat) indication
2. RDM (random) indication
3. Operation status indication
   ∗ The frequency, play time, clock, T-scan, D-scan etc. are displayed.
4. Z-EHCR (z-enhancer) indication
5. MANU (manual) indication
6. ST (stereo) indication
7. Preset channel indication (1 to 6)
   Disc number indication (1 to 12)
   ∗ The disc numbers corresponding to the discs in the CD or MD changer light.
8. Function mode indication
   ∗ The names of modes being selected, etc. are displayed.
9. B NR (Dolby NR) indication
10. BLS (blank skip) indication
11. LOUD (loudness) indication

5. REMOTE CONTROL

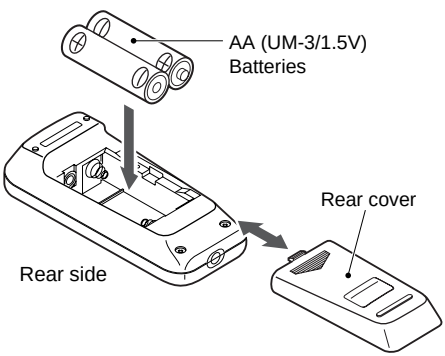


Remote control unit



Inserting the Batteries

1. Turn the remote control unit over, then slide the rear cover in the direction of the arrow.
2. Insert the AA (UM-3/1.5V) batteries that came with the remote control unit facing in the directions shown in the figure, then close the rear cover.



Notes:

Using batteries improperly can cause them to explode. Take note of the following points:

- *When replacing batteries, replace both batteries with new ones.*
- *Do not short-circuit, disassemble or heat batteries.*
- *Do not dispose of batteries into fire or water.*
- *Dispose of spent batteries properly.*

English

Functions of Remote Control Unit Buttons

Button \ Mode	Radio	CD	Tape	CD changer MD changer	TV
23 FUNC	Turns power on and off. When pressed and held for 1 second: Turns power off. Switches among radio, CD, Tape, CD changer, MD changer and TV.				
24 BAND DISC UP PROG TOP	Switches reception band.	Plays the first track. Top play.	Switches the side of the tape.	Moves the next disc in increasing order.	Switches reception band.
25 VOLUME	Increases and decreases volume (in all modes).				
26 SEARCH	Moves preset channels up and down.	Moves tracks up and down. When pressed and held for 1 second: Fast-forward/ fast-backward.	Fast-forward and rewinds tape. APC fast-forward and rewind.	Moves tracks up and down. When pressed and held for 1 second: Fast-forward/ fast-backward.	Moves preset channels up and down.
27 PLAY/PAUSE	No function.	Switches between playback and pause.	Switches between playback and pause.	Switches between playback and pause.	No function.
28 MUTE	Turns mute on and off.				
29 ISR	Recalls ISR radio station in memory. Press and hold for 2 seconds or longer: Stores current station into ISR memory (radio mode only).				
30 DISP	Switches among main display, sub display and clock display.				
31 SCN PS/AS	Preset scan. When pressed and held for 2 seconds: Auto store.	Scan play.	Fast-forward scan.	Scan play. When pressed and held for 1 seconds: Disc scan play.	Preset scan. When pressed and held for 2 seconds: Auto store.
32 RPT BLS	No function.	Repeat play.	Repeat play. When pressed and held for 1 second: Blank tape skip function turns on and off.	Repeat play. When pressed and held for 1 seconds: Disc repeat play.	No function.
33 RDM DOLBY NR MONI	No function.	Random play.	Select Dolby Noise Reduction mode.	Random play. When pressed and held for 1 seconds: Disc random play.	Switches between TV and VTR.

* Some of the corresponding buttons on the source unit and remote control unit have different functions.

English

6. OPERATIONS

Basic Operations

Note: *Be sure to read this chapter referring to the front diagrams of chapter "**3. CONTROLS**" on page 5 (unfold).*

⚠CAUTION

Be sure to lower the volume before switching off the unit power or the ignition key. The unit remembers its last volume setting. If you switch the power off with the volume up, when you switch the power back on, the sudden loud volume may hurt your hearing and damage the unit.

The clock is displayed when the ignition key is turned to the ACC (accessory) or IGN (ignition-on) position even when the unit power is off. In some cars, the clock may momentarily disappear when the ignition key is turned to the START position. The clock will reappear after the engine has started and the ignition key is released to the IGN (ignition-on) position.

Turning on/off the power

Notes:

- *Be careful about using this unit for a long time without running the engine. If you drain the car's battery too far, you may not be able to start the engine and this can reduce the service life of the battery.*
- *System check*

  *This unit checks what external equipment is connected to the CeNET. The first time the ACC/Ignition is turned on (initialization), "**SYSTEM**" and "**Push PWR**" alternately blink in the display. Press POWER button [7] to start the system check. When complete, press POWER button [7] again to activate the unit then the unit appears CHECKING COMPLETE.*

1. Press POWER button [7].
2. The illumination and display on the unit light up. The unit automatically remembers its last operation mode and will automatically switch to display that mode.
3. Press and hold POWER button [7] for 1 second or longer to turn off the power for the unit.

Selecting a mode

1. Press FUNC button [7] to change the mode of operation.
2. Each time you press FUNC button [7], the mode of operation changes in the following order:

   Radio mode ➜ CD mode ➜ Tape mode ➜ CD changer mode ➜ MD changer mode ➜ TV mode ➜ Radio mode...

   ∗ External equipment not connected with CeNET is not displayed.

Adjusting the volume

Press Up button [17] or Down button [18] increases or decreases the volume.

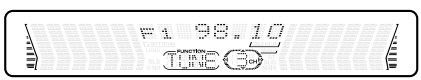
∗ The volume level is from 0 (minimum) to 33 (maximum).

Switching the display

Press DISP button [3] to select the desired display.

Each time you press DISP button [3], the display switches in the following order:

Main display



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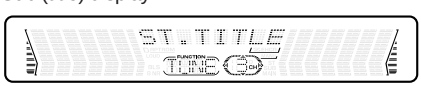
Sub (title) display



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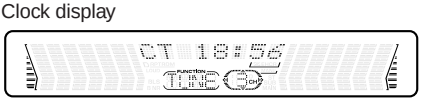
Clock display



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Main display...

English

* Once selected, the preferred display becomes the display default. When a function adjustment such as volume is made, the screen will momentarily switch to that function's display, then revert back to the preferred display several seconds after the adjustment.
* When you have entered a title in a CD, it appears in the sub display. If you have not entered a title, "**NO-TTL**" appears in the title display instead. For information on how to enter a title, refer to the subsection "**Entering titles**" in the "**Other Handy Functions**".
* You can adjust the way of scrolling a title. For the details on it, refer to the subsection "**Adjusting the way of scrolling**" in the "**Other Handy Functions**".

Setting the Z-enhancer

This unit comes with 3 types of sound tone effects stored in memory. Select the one you prefer.

* The factory default setting is "**OFF**".

Each time you press Z-EHCR button [2], the tone effect changes in the following order:

"**Z-EHCR 1**" ➜ "**Z-EHCR 2**" ➜ "**Z-EHCR 3**" ➜ "**OFF**" ➜ "**Z-EHCR 1**"...

- Z-EHCR 1 : bass emphasized
- Z-EHCR 2 : treble emphasized
- Z-EHCR 3 : bass and treble emphasized
- OFF : no sound effect

Adjusting the tone

Press A-M button [19] and select the item to adjust. Each time you press A-M button [19], the item changes in the following order:

● **When the Z-enhancer is off**

"**BASS**" ➜ "**TREB**" ➜ "**BAL**" ➜ "**FAD**" ➜ Function mode...

● **When Z-enhancer 1, 2 or 3 is set**

"**Z-EHCR**" ➜ "**BAL**" ➜ "**FAD**" ➜ Function mode...

Adjusting the bass

1. Press A-M button [19] and select "**BASS**".
2. Press Up button [17] to emphasize the bass, or press Down button [18] to attenuate the bass.
   * The factory default setting is "**0**". (Adjustment range: –6 to +6)
3. When the adjustment is complete, press A-M button [19] several times until the function mode is reached.

Adjusting the treble

1. Press A-M button [19] and select "**TREB**".
2. Press Up button [17] to emphasize the treble, or press Down button [18] to attenuate the treble.
   * The factory default setting is "**0**". (Adjustment range: –6 to +6)
3. When the adjustment is complete, press A-M button [19] several times until the function mode is reached.

Adjusting the balance

1. Press A-M button [19] and select "**BAL**".
2. Press Up button [17] to emphasize the sound from the right speaker, or press Down button [18] to emphasizes the sound from the left speaker.
   * The factory default setting is "**0**". (Adjustment range: L13 to R13)
3. When the adjustment is complete, press A-M button [19] several times until the function mode is reached.

Adjusting the fader

1. Press A-M button [19] and select "**FAD**".
2. Press Up button [17] to emphasize the sound from the front speakers, or press Down button [18] to emphasize the sound from the rear speakers.
   * The factory default setting is "**0**". (Adjustment range: F12 to R12)
3. When the adjustment is complete, press A-M button [19] several times until the function mode is reached.

Adjusting the Z-enhancer

1. Press Z-EHCR button [2] and select the Z-enhancer mode (1 to 3) to adjust.
2. Press A-M button [19] and select "**Z-EHCR**".
3. Press Up button [17] or press Down button [18] to adjusts Z-enhancer.
   * When Z-enhancer 1 is selected, you can adjust the bass in the range of ±2.
   * When Z-enhancer 2 is selected, you can adjust the treble in the range of ±2.
   * When Z-enhancer 3 is selected, you can adjust the bass and treble in the range of ±2.
4. When the adjustment is complete, press A-M button [19] several times until the function mode is reached.

Turning on/off the loudness

The loudness effect emphasizes the bass and treble to create a natural sound tone. When you are listening to music at a low volume, it is recommended to use the loudness effect.

1. Press and hold LOUD button [19] for 1 second or longer to turn on the loudness effect. When the loudness effect is turned on, "**LOUD**" lights in the display.
2. Press and hold LOUD button [19] for 1 second or longer to turn off the loudness effect. "**LOUD**" goes off in the display.

Radio Operations

FM reception

For enhanced FM performance the MAGI-TUNE® tuner includes signal actuated stereo control and Multipath noise reduction circuits.

Changing the reception area

This unit is initially set to USA frequency intervals of 10kHz for AM and 200kHz for FM. When using it outside the USA, the frequency reception range can be switched to the intervals below.

● **Setting the reception area**

1. Press FUNC button [7] and select the radio mode (FM or AM).
2. While pressing RDM button [8], each time you press and hold the number "**1**" of the Preset buttons [1] for 2 seconds or longer, the reception area switches from inside the USA to outside the USA or from outside the USA to inside the USA.
   ∗ Any station preset memories are lost when the reception area is changed.

Listening to the radio

1. Press FUNC button [7] and select the radio mode.
2. Press BAND button [11] and select the radio band. Each time the button is pressed, the radio reception band changes in the following order:
   FM1 ➜ FM2 ➜ FM3 ➜ AM ➜ FM1...
3. Press Right button [16] or Left button [15] to tune in the desired station.

Tuning

There are 3 types of tuning mode available, seek tuning, manual tuning and preset tuning.

Seek tuning

1. Press BAND button [11] and select the desired band (FM or AM).
   ∗ If "**MANU**" is lit in the display, press and hold BAND button [11] for 1 second or longer. "**MANU**" in the display goes off and seek tuning is now available.
2. Press Right button [16] or Left button [15] to automatically seek to the next station.
   When Right button [16] is pressed, the station is sought in the direction of higher frequencies; if Left button [15] is pressed, the station is sought in the direction of lower frequencies.

English

Manual tuning

There are 2 ways available: Quick tuning and step tuning.
When you are in the step tuning mode, the frequency changes one step at a time. In quick tuning mode, you can quickly tune the desired frequency.

1. Press BAND button [11] and select the desired band (FM or AM).
   * If "**MANU**" is not lit in the display, press and hold BAND button [11] for 1 second or longer. "**MANU**" lights in the display and manual tuning is now available.
2. Tune into a station.

● **Quick tuning:**

Press and hold Right button [16] or Left button [15] for 1 second or longer to manually tune to the desired frequency.

● **Step tuning:**

Press Right button [16] or Left button [15] to manually tune one step at a time to the desired frequency.

Storing a preset station

A total of 24 preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exists to store individual radio stations in memory.

Manual memory

1. Select the desired station with seek tuning, manual tuning or preset tuning.
2. Press and hold one of Preset buttons [1] for 2 seconds or longer to store the current station into preset memory.

Auto store

Auto store selects up to 6 stations and automatically stores them into preset memory. If auto store cannot tune in all six stations, then it stores the strongest stations into memory and the other presets untouched.

1. Press BAND button [11] and select the desired band (FM or AM).
2. Press and hold AS button [5] for 2 seconds or longer. The stations with good reception are stored automatically to the preset buttons.

Recalling a preset station

Pressing the corresponding preset button recalls the stored radio frequency automatically.

1. Press BAND button [11] and select the desired band (FM1, FM2, FM3 or AM).
2. Press the corresponding Preset button [1] to recall the stored station.
   * Press and hold one of the Preset buttons [1] for 2 seconds or longer to store that station into preset memory.

Preset scan

Preset scan receives the stations stored in preset memory in order. This function is useful when searching for a desired station in memory.

1. Press PS button [5].
2. When a desired station is tuned in, press PS button [5] again to continue receiving that station.

Note:

• Be careful not to press and hold PS button [5] for 2 seconds or longer, otherwise the auto store function engages and the unit starts storing stations.

Instant station recall (ISR)

Instant station recall is a special radio preset that instantly accesses a favorite radio station at a touch of a button. The ISR function even operates with the unit in other modes.

● **ISR memory**

1. Select the station that you wish to store in ISR memory.
2. Press and hold ISR button [9] for 2 seconds or longer.

● **Recalling a station with ISR**

In any mode, press ISR button [9] to turn on the radio function and tune the selected radio station. "**ISR**" appears in the display. Press ISR button [9] again to return to the previous mode.

Loading a CD

Insert a CD into the center of the insertion slot with the label side facing up. The CD plays automatically after loading.

***Notes**:*

- *Never insert foreign objects into the CD insertion slot.*
- *When a CD is loaded in the unit, CD IN indication **8** lights in the display. Never try to insert another CD in this case.*
- *Discs not bearing the COMPACT DISC DIGITAL AUDIO mark and CD-ROMs cannot be played by this unit.*
- *Some CDs recorded in CD-R mode may not be usable.*
- *Even when recorded in CD-RW mode, some CDs not be usable.*

Listening to a CD already inserted

Press FUNC button 7 to select the CD mode. Play starts automatically. If no CD is loaded in the unit, "**NO DISC**" appears in the display.

Pausing play

1. Press Play/pause button 12 to pause play. "**PAUSE**" appears in the display.
2. To resume CD play, press Play/pause button 12 again.

Displaying CD titles

This unit can display title data for user titles input with this unit.

Press DISP button 3 to display the title.

Notes:

- *Titles of CD-text CDs cannot be displayed with this unit.*
- *If the CD playing is a CD-text CD or no user title has been input, "**NO- TTL**" appears in the display.*

Ejecting a CD

Press CD EJECT button 20 to eject the CD. Take it out from the ejected position.

∗ If a 5″ CD (12 cm) is left in the ejected position for 15 seconds, the CD is automatically reloaded (Auto reload).

∗ 3″ CDs (8 cm) are not auto reloaded. Be sure to remove it when ejected.

Notes:

- ***If you force a CD into before auto reloading, this can damage the CD.***

∗ *The radio mode is selected automatically 4 seconds after CD EJECT button 20 is pressed.*

Selecting a track

● **Track-up**

1. Press Right button 16 to move ahead to the beginning of the next track.
2. Each time you press Right button 16, the track advances ahead to the beginning of the next track.

● **Track-down**

1. Press Left button 15 to move back to the beginning of the current track.
2. Press Left button 15 twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● **Fast-forward**

Press and hold Right button 16 for 1 second or longer.

● **Fast-backward**

Press and hold Left button 15 for 1 second or longer.

Top function

The top function resets the CD player to the first track of the disc. Press TOP button 11 to play the first track (track No. 1) on the disc.

Scan play

The scan play locates and plays the first 10 seconds of each track on a disc automatically. This function continues on the disc until it is canceled.

∗ The scan play is useful when you want to select a desired track.

1. Press SCN button 5 to start track scanning. "**T-SCAN**" lights in the display.
2. To cancel the scan play, press SCN button 5 again. "**T-SCAN**" goes off from the display and the current track continues to play.

English

Repeat play

The repeat play continuously plays the current track. This function continues automatically until it is canceled.

1. Press RPT button 6. "**T-REPEAT**" lights in the display and the current track is repeated.
2. To cancel the repeat play, press RPT button 6 again. "**T-REPEAT**" goes off from the display and normal play resumes.

Random play

The random play selects and plays individual tracks on a disc in no particular order. This function continues automatically until it is canceled.

1. Press RDM button 8. "**T-RANDOM**" lights in the display, an individual track is selected randomly and play begins.
2. To cancel the random play, press RDM button 8 again. "**T-RANDOM**" goes off from the display and normal play resumes.

Tape Operations

Loading a tape

Load a tape into the cassette tape insertion slot. "**LOADING**" appears in the display and starts playing.

* When a metal or chrome bias (70μ sec) tape is inserted, the metal bias setting is selected automatically.
* The cassette tape slot door shuts automatically after inserting or ejecting a tape ("**Auto shut door function**"). It protects the tape mechanism from any dust.

***Notes**:*

- *Do not put your hands, fingers or foreign objects into the cassette tape insertion slot.*
- *When a cassette tape is loaded in the insertion slot, "**TAPE IN**" lights in the display. Never try to insert another tape forcibly.*

Listening to a tape already inserted

Press FUNC button 7 to select the tape mode. Play starts automatically. If no tape is loaded in the unit, "**NO CASS**" appears in the display.

Pausing play

1. Press Play/pause button 12 to pause play. "**PAUSE**" appears in the display.
2. To resume tape play, press Play/pause button 12 again.

Ejecting a tape

Press TAPE EJECT button 14 to eject a tape. Take it out from the ejected position.

* The radio mode is selected automatically 4 seconds after TAPE EJECT button 14 is pressed.

Switching to the other side of the tape

Press PROG button 11 to change tape direction and playback.

* The tape mechanism automatically reverses direction and engage playback at the end of the tape (auto reverse).

Fast-forward/fast-backward

● **Fast-forward**

Press Right button 16.

● **Fast-backward**

Press Left button 15.

● **Canceling FF/REW**

Press Play/pause button 12.

● **Listening to another source while using FF or REW ("monitor mode")**

To listen to the CD, CD/MD changer or AM/FM tuner while the mechanism searches, press FUNC button [7] to select the desired mode. The mechanism will stop automatically when the end of the tape is reached.

***Note**:*

• Use FUNC button [7] and select the tape function to resume tape playback.

APC (Auto Program Control) function

The APC function allows the tape to skip forward to the beginning of the next track or rewind to the start of the current track.

● **Skipping forward to the next track ("APC-FF")**

During tape playback, press Right button [16] twice to fast-forward to the next track. The next track stars playing.

● **Skipping backward to the current track ("APC-REW")**

During tape playback, press Left button [15] twice to rewind to the start of the current track. The current track plays from the beginning.

● **Canceling FF/REW APC to resume playback**

Press Play/pause button [12].

● **Listening to another source while using APC ("monitor mode")**

To listen to the CD, CD/MD changer or AM/FM tuner while the mechanism searches, press FUNC button [7] to select the desired mode. The mechanism will stop automatically when it finds the next track (in FF APC) or the start of the current track (in REW APC).

***Note**:*

• Use FUNC button [7] and select the tape function to resume tape playback.

Dolby noise reduction system

The Dolby noise reduction system increases the volume level of high frequency sounds during recording and sets it back to their original level during play. This system reduces hissing noise which is typical of cassette tapes.

∗ Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Press B NR button [8] to select Dolby noise reduction. "**B NR**" lights in the display. Each time you press B NR button [8], the Dolby toggles between B NR and OFF.

Intro tape scan play

The intro tape scan allows the first 10 seconds of all the tracks on the tape to be played. This function continues on the tape until it is canceled.

1. Press SCN button [5] to start Intro tape scan. "**SCAN**" lights in the display.
2. To cancel the intro tape scan, press SCN button [5] again. "**SCAN**" goes off from the display and the current track continues to play.
   ∗ When the end of the tape is reached during the intro tape scan, the tape mechanism automatically reverses direction and continues the intro tape scan.
   ∗ If you select another mode during the intro tape scan, the mechanism automatically makes the intro tape scan stop when it finds the next track (APC function).

Tape repeat play

The tape repeat continuously plays the current track. This function continues automatically until it is canceled.

1. Press RPT button [6]. "**REPEAT**" lights in the display and the current track is repeated.
2. To cancel the repeat play, press RPT button [6] again. "**REPEAT**" goes off from the display and normal play resumes.

Blank tape skip

The blank tape skip allows you to skip blank sections of tape that are over 12 seconds long.

1. Press and hold RPT button [6] for 1 second or longer. "**BLS**" lights in the display and the mechanism fastforward to the next track selection.
2. To cancel the blank tape skip, press and hold RPT button [6] again. "**BLS**" goes off and normal play resumes.

***Notes**:*

The APC, intro tape scan, tape repeat and blank skip may not work properly with tapes of the following qualities:

• Tapes on which the recording level is too low.
• Tapes on which there is much noise between selections.
• Tapes on which there are long pauses in the middle of selections.
• Tapes on which there are less than 4 seconds of blank space between selections.

English

Setting the clock

1. Press and hold ADJ button [13] for 1 second or longer to switch to the adjustment selection display.
2. Press Right button [16] or Left button [15] to select "**CLOCK**".
3. Press ENT button [12].
4. Press Right button [16] or Left button [15] to select the hour or the minute.
5. Press Up button [17] or press Down button [18] to set the correct time.
   ∗ The clock is displayed in 12-hour format.
6. Press ENT button [12] to store the time into memory.
7. Press ADJ button [13] to return to the previous mode.

Note:

• You cannot set the clock when it is displayed with only the ignition on. If you drain or remove the car's battery or take out this unit, the clock is reset. While setting the clock, if another button or operation is selected, the clock set mode is canceled.

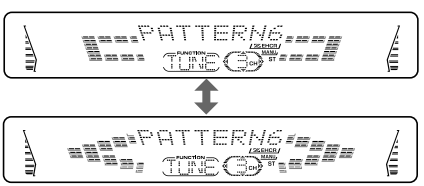
Switching the spectrum analyzer display patterns

You can select one out of 4 patterns or set it to off.

∗ The factory default setting is "**PATTERN 1**".

Each time you press SPE-ANA button [4], the spectrum analyzer display pattern changes in the following order:

PATTERN 1 ➜ PATTERN 2 ➜ PATTERN 3 ➜ PATTERN 4 ➜ PATTERN 5 ➜ PATTERN 6 ➜ PATTERN 7 ➜ PATTERN 8 ➜ PATTERN 9 ➜ OFF ➜ PATTERN 1...



Note:

The spectrum analyzer display is unavailable during these operations below;

- *Seek tuning and auto store in radio mode.*
- *Mute or pause.*
- *When "**NO DISC**" or an error message appears in the display.*

Setting the sensitivity of the spectrum analyzer

∗ The factory default setting is "**MID**".

1. Press and hold ADJ button [13] for 1 second or longer to switch to the adjustment selection display.
2. Press Right button [16] or Left button [15] to select "**ANA SENS**".
3. Press Up button [17] or Down button [18] to set the sensitivity of the spectrum analyzer.
   You can choose one of "**LOW**", "**MID**" or "**HIGH**" for the sensitivity of the spectrum analyzer.
4. Press ADJ button [13] to return to the previous mode.

Setting the speed of the spectrum analyzer display

∗ The factory default setting is "**HIGH**".

1. Press and hold ADJ button [13] for 1 second or longer to switch to the adjustment selection display.
2. Press Right button [16] or Left button [15] to select "**ANA SPD**".
3. Press Up button [17] or Down button [18] to set the speed of the spectrum analyzer display.
   You can choose one of "**LOW**", "**MID**" or "**HIGH**" for the speed of the spectrum analyzer display.
4. Press ADJ button [13] to return to the previous mode.

Entering titles

Titles up to 10 characters long can be stored in memory and displayed for radio or TV stations and CDs. The numbers of titles that can be entered for each mode are as follows.

Mode	Number of titles
Radio mode	30 titles
CD mode	100 titles
TV mode	15 titles

CD changer mode	Number of titles
CDC655z connected	60 titles
CDC655Tz connected	100 titles
CDC1255z connected	50 titles

1. Press FUNC button [7] to select the mode you want to enter a title. (radio, CD, CD changer or TV)
   ∗ Titles cannot be entered for MDs with this unit.
2. Select and play a CD or a CD in the CD changer, or tune to an appropriate TV or radio station.
3. Press DISP button [3] and display the title.

4. Press TITLE button 13. "**TITL**" appears in the display and the cursor position flashes.
5. Press Right button 16 or Left button 15 to move the cursor.
6. Press DISP button 3 to select a character. Each time you press DISP button 3, the character changes in the following order:

   Capital letters ➜ Small letters ➜ Numbers/ Symbols ➜ Capital letters...
7. Press Right button 16 or Left button 15 to select the desired character. Pressing Right button 16 moves the cursor to the next character; pressing Left button 15 moves the cursor to the previous character.
8. Repeat steps 5 to 7 to enter up to 10 characters for the title.
9. Press and hold ENT button 12 for 2 seconds or longer to store the title into memory and cancel title input mode.

Clearing titles

1. Play a CD or a CD in a CD changer, or tune a radio station or TV station that you want to clear the title for.
2. Press DISP button 3 and display the subtitle.
3. Press TITLE button 13. "**TITL**" appears in the display and the display switches to the title input display.
4. Press BAND button 11.
5. Press and hold ENT button 12 for 2 seconds or longer to clear the title and cancel the title input mode.

Message display

When the unit is powered on or off, a message is displayed. The user can turn this message display on or off.

∗ The factory default setting is "**ON**".

1. Press and hold ADJ button 13 for 1 second or longer to switch to the adjustment selection display.
2. Press Right button 16 or Left button 15 to select "**MESSAGE**".
3. Press Up button 17 to set the message display to "**ON**"; press Down button 18 to set the message display to "**OFF**".
5. Press ADJ button 13 to return to the previous mode.

Clock function

● **Time matching**

Regarding the "CLOCK INDICATION"...

The unit indicates the clock when the car engine is running (when ACC is ON).

The clock is of 12-hour indication.

1. Press the "TITLE" button continuously (for about 1 second).

   ➜ [ANA_SENS] is indicated.
2. Press Left button or Right button and select "CLOCK_ _**E**"
3. Press the "ENTER" button to indicate the clock.

   ➜ The clock indicates "AM 12:00" and turns to the "time setting" mode.
4. Press Left button or Right button and select "HOUR" or "MINUTE" may adjust items which are flashing.
5. Press Right button or Left button and match the time.
6. Press the "ENTER" button.
7. Press the "TITLE" button.

   ➜ The unit returns to the original indication.

Triggered audio mute for cellular telephones

This unit requires special wiring to mute the audio signal automatically when a cellular telephone rings in the car.

∗ This function is not compatible with all cellular telephones. Contact your local authorized Clarion dealer for information on proper installation and compatibility.

Adjusting the way of title scrolling

There are 3 ways for scrolling a title in the display. You can select the way you prefer.

∗ The factory default setting is "**AUTO**".

1. Press and hold ADJ button 13 for 1 second or longer to switch to the adjustment selection display.
2. Press Right button 16 or Left button 15 to select "**SCROLL**".
3. Press Up button 17 or Down button 18 to change the display. Each time Up button 17 or Down button 18 is pressed, the display changes among the 2 display methods available.
4. Press ADJ button 13 to return to the previous mode.

English

7. OPERATIONS OF ACCESSORIES

CD Changer Operations

English

CD changer functions

When an optional CD changer is connected through the CeNET cable, this unit controls all the CD changer functions. This unit can control a total of 2 changers (MD and/or CD).

Press FUNC button [7] and select the CD changer mode to start play. If 2 CD changers are connected, press FUNC button [7] to select the CD changer for play.

* If "**NO MAGA**" appears in the display, insert the magazine into the CD changer. "**CHECK**" appears in the display while the player loads (checks) the magazine.
* If "**NO DISC**" appears in the display, eject the magazine and insert discs into each slot. Then, reinsert the magazine back into the CD changer.

⚠ CAUTION

CD-ROM discs cannot be played in the CD changer.

Pausing play

1. Press Play/pause button [12] to pause play. "**PAUSE**" appears in the display.
2. To resume play, press Play/pause button [12] again.

Displaying CD titles

This unit can display title data for CD-text CDs and user titles input with this unit.

* Title data for CD-text CDs can be displayed with this unit only when it is connected to CDC655Tz.

● **When connected to CDC655z or CDC1255z**

Press DISP button [3] to display the title.

● **When connected to CDC655Tz**

1. Press DISP button [3] to display the title.
2. Each time you press and hold DISP button [3] for 1 second or longer, the title display changes in the following order:

   User title (disc) ➜ CD-text title (disc) ➜ CD-text title (track) ➜ user title (disc)...

Notes:

*• If the CD playing is not a CD-text CD or no user title has been input, "**USER TTL**" appears in the display.*

*• If a CD-text CD is not input its disc title or a track title, "**TEXT D TTL**" or "**TEXT T TTL**" appears in the display.*

Selecting a CD

Each of the Direct button [1] corresponds to a disc loaded into the magazine.

● **Selecting a disc from 1 to 6**

Press the corresponding Direct button [1] (1 to 6) to select the desired disc.

● **Selecting a disc from 7 to 12 (only when a 12 disc CD changer is used.)**

Press and hold the corresponding Direct button [1] (7 to 12) for 1 second or longer to select the desired disc.

* If a CD is not loaded in a slot of the magazine, pressing the Direct button [1] corresponding to its disc number is invalid.

Selecting a track

● **Track-up**

1. Press Right button [16] to move ahead to the beginning of the next track.
2. Each time you press Right button [16], the track advances ahead to the beginning of the next track.

● **Track-down**

1. Press Left button [15] to move back to the beginning of the current track.
2. Press Left button [15] twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● **Fast-forward**

Press and hold Right button [16] for 1 second or longer.

● **Fast-backward**

Press and hold Left button [15] for 1 second or longer.

Top function

The top function plays from the first track (track No. 1) of the disc.

● **When playing a disc 1 to 6**

Press the Direct button 1 (1 to 6) with the same number as the CD playing.

● **When playing a disc 7 to 12 (only when a 12 disc CD changer is used.)**

Press and hold for 1 second or longer the Direct button 1 (7 to 12) with the same number as the CD playing.

∗ If a CD is not loaded in a slot of the magazine, pressing the Direct button 1 corresponding to its disc number is invalid.

Scan play

The scan play locates and plays the first 10 seconds of each track on a disc automatically. This function continues on the disc until it is canceled.

∗ The scan play is useful when you want to select a desired track.

1. Press SCN button 5 to start track scanning. "**T-SCAN**" lights in the display.
2. To cancel the scan play, press SCN button 5 again. "**T-SCAN**" goes off from the display and the current track continues to play.

Disc scan play

The disc scan play locates and plays the first 10 seconds of the first track on each disc in the currently selected CD changer. This function continues automatically until it is canceled.

∗ The disc scan play is useful when you want to select a desired CD.

1. Press and hold SCN button 5 for 1 second or longer. DISC indication 3 and "**D-SCAN**" light in the display and the disc scan play starts.
2. To cancel the disc scan play, press SCN button 5 again. DISC indication 3 and "**D-SCAN**" go off from the display and the current track continues to play.

Repeat play

The repeat play continuously plays the current track. This function continues automatically until it is canceled.

1. Press RPT button 6. "**T-REPEAT**" lights in the display and the current track is repeated.
2. To cancel the repeat play, press RPT button 6 again. "**T-REPEAT**" goes off from the display and normal play resumes.

Disc repeat play

After all the tracks on the current disc have been played, the disc repeat play automatically replays the current disc over from the first track. This function continues automatically until it is canceled.

1. Press and hold RPT button 6 for 1 second or longer. DISC indication 3 and "**D-REPEAT**" light in the display and the disc repeat play starts.
2. To cancel the disc repeat play, press and hold RPT button 6 again. DISC indication 3 and "**D-REPEAT**" go off from the display and normal play resumes on the current track.

Random play

The random play selects and plays individual tracks on the disc in no particular order. This function continues automatically until it is canceled.

1. Press RDM button 8. "**T-RANDOM**" lights in the display and the random play begins.
2. To cancel the random play, press RDM button 8 again. "**T-RANDOM**" goes off from the display and normal play resumes.

Disc random play

The disc random play selects and plays individual tracks or discs automatically in no particular order. This function continues automatically until it is canceled.

1. Press and hold RDM button 8 for 1 second or longer. DISC indication 3 and "**D-RANDOM**" light in the display and the disc random play starts.
2. To cancel the disc random play, press and hold RDM button 8 again. DISC indication 3 and "**D-RANDOM**" go off from the display and normal play resumes from the current track.

MD changer functions

When an optional MD changer is connected through the CeNET cable, this unit controls all the MD changer functions. This unit can control a total of 2 changers (MD and/or CD).

Press FUNC button [7] and select the MD changer mode to start play. If 2 MD changers are connected, press FUNC button [7] to select the MD changer for play.

∗ If "**NO DISC**" appears in the display, load MDs into the MD changer.

Pausing play

1. Press Play/pause button [12] to pause play. "**PAUSE**" appears in the display.
2. To resume play, press Play/pause button [12] again.

Switching disc titles and track titles

This unit can display disc titles and track titles already entered on MDs.

∗ Titles cannot be entered for MDs with this unit.

1. Press DISP button [3] to display the title. The disc title or track title is displayed.
2. Each time you press and hold DISP button [3] for 1 second or longer, the display toggles between the disc title and the track title.

Note:

*• If an MD is not input its disc title or a track title, "**D** **TITLE**" or "**T** **TITLE**" appears in the display.*

Selecting an MD

Each of the Direct button [1] corresponds to an MD loaded into the MD changer. Press the corresponding Direct button [1] (1 to 6) to select the desired disc.

∗ If an MD is not loaded in a slot of the MD changer, pressing the Direct button [1] corresponding to its disc number is invalid.

Selecting a track

● **Track-up**

1. Press Right button [16] to move ahead to the beginning of the next track.
2. Each time you press Right button [16], the track advances ahead to the beginning of the next track.

● **Track-down**

1. Press Left button [15] to move back to the beginning of the current track.
2. Press Left button [15] twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● **Fast-forward**

Press and hold Right button [16] for 1 second or longer.

● **Fast-backward**

Press and hold Left button [15] for 1 second or longer.

Top function

The top function plays from the first track (track No. 1) of the disc. Press the Direct button [1] (1 to 6) with the same number as the MD playing.

∗ If an MD is not loaded in a slot of the MD changer, pressing the Direct button [1] corresponding to its disc number is invalid.

Scan play

The scan play locates and plays the first 10 seconds of each track on a disc automatically. This function continues on the disc until it is canceled.

∗ The scan play is useful when you want to select a desired track.

1. Press SCN button [5] to start track scanning. "**T-SCAN**" lights in the display.
2. To cancel the scan play, press SCN button [5] again. "**T-SCAN**" goes off from the display and the current track continues to play.

Disc scan play

The disc scan play locates and plays the first 10 seconds of the first track on each disc in the currently selected MD changer. This function continues automatically until it is canceled.

∗ The disc scan play is useful when you want to select a desired MD.

1. Press and hold SCN button [5] for 1 second or longer. DISC indication **3** and "**D-SCAN**" light in the display and the disc scan play starts.
2. To cancel the disc scan play, press and hold SCN button [5] again. DISC indication **3** and "**D-SCAN**" go off from the display and the current track continues to play.

Repeat play

The repeat play continuously plays the current track. This function continues automatically until it is canceled.

1. Press RPT button [6]. "**T-REPEAT**" lights in the display and the current track is repeated.
2. To cancel the repeat play, press RPT button [6] again. "**T-REPEAT**" goes off from the display and normal play resumes.

Disc repeat play

After all the tracks on the current disc have been played, the disc repeat play automatically replays the current disc over from the first track. This function continues automatically until it is canceled.

1. Press and hold RPT button [6] for 1 second or longer. DISC indication **3** and "**D-REPEAT**" light in the display and the disc repeat play starts.
2. To cancel the disc repeat play, press and hold RPT button [6] again. DISC indication **3** and "**D-REPEAT**" go off from the display and normal play resumes on the current track.

Random play

The random play selects and plays individual tracks on the disc in no particular order. This function continues automatically until it is canceled.

1. Press RDM button [8]. "**T-RANDOM**" lights in the display and the random play begins.
2. To cancel the random play, press RDM button [8] again. "**T-RANDOM**" goes off from the display and normal play resumes.

Disc random play

The disc random play selects and plays individual tracks or discs automatically in no particular order. This function continues automatically until it is canceled.

1. Press and hold RDM button [8] for 1 second or longer. DISC indication **3** and "**D-RANDOM**" light in the display and the disc random play starts.
2. To cancel the disc random play, press and hold RDM button [8] again. DISC indication **3** and "**D-RANDOM**" go off from the display and normal play resumes from the current track.

TV Operations

TV tuner functions

When an optional TV tuner is connected through the CeNET cable, this unit controls all TV tuner functions. To watch TV requires a TV tuner and monitor.

Watching a TV

1. Press FUNC button [7] and select the TV mode.
2. Press BAND button [11] to select the desired TV band (TV1 or TV2). Each time the button is pressed, the input selection toggles between TV1 and TV2.
3. Press Right button [16] or Left button [15] to tune in the desired TV station.

Watching a video

The TV tuner has a VTR input terminal to which 1 external device can be connected. Connect a 12V video cassette player (VCP) or video cassette recorder (VCR) to the TV tuner input terminal.

1. Press RDM button [8] to select VTR.
2. To return to the TV broadcast, press RDM button [8].

Tuning

There are 3 types of tuning mode available, seek tuning, manual tuning and preset tuning.

Seek tuning

1. Press BAND button [11] and select the desired TV band (TV1 or TV2).
   * If "**MANU**" is lit in the display, press and hold BAND button [11] for 1 second or longer. "**MANU**" in the display goes off and seek tuning is now available.
2. Press Right button [16] or Left button [15] to automatically seek to the next station.

   Press Right button [16] to automatically tune up the frequency band to the next available TV station; press Left button [15] to automatically tune down.

English

Manual tuning

There are 2 ways available: Quick tuning and step tuning.

When you are in the step tuning mode, the frequency changes one step at a time. In quick tuning mode, you can quickly tune the desired frequency.

1. Press BAND button [11] and select the desired band (TV1 or TV2).
   * If "**MANU**" is not lit in the display, press and hold BAND button [11] for 1 second or longer. "**MANU**" lights in the display and manual tuning is now available.
2. Tune into a station.

● **Quick tuning:**

Press and hold Right button [16] or Left button [15] for 1 second or longer to quickly tune up and down to a desired station.

● **Step tuning:**

Press Right button [16] or Left button [15] to manually tune to a station, one channel at a time.

Recalling a preset station

A total of 12 TV stations can be stored (6-TV1 and 6-TV2). This allows you to select your favorite TV stations and store them in memory for later recall.

1. Press BAND button [11] and select the desired TV band (TV1 or TV2).
2. To recall a stored TV station, press the desired Preset button [1] to select that station.
   * Press and hold one of the Preset buttons [1] for 2 seconds or longer to store the current station into the preset memory.

Manual memory

1. Select the desired station with seek tuning, manual tuning or preset tuning.
2. Press and hold one of the Preset buttons [1] for 2 seconds or longer to store the current station to that preset memory.

Auto store

Auto store selects 6 TV stations automatically and stores each one into a preset memory.

If there are not 6 stations with good reception, stations previously stored in memory remain and only the strong stations are stored into memory.

1. Press BAND button [11] and select the desired TV band (TV1 or TV2).
2. Press and hold AS button [5] for 2 seconds or longer. The stations with good reception are automatically stored to the Preset buttons [1].

Preset scan

Preset scan allows the user to view each preset position before it automatically advances to the next preset. This function is useful for searching for a desired TV station in memory.

1. Press PS button [5].
2. When a desired station is found, press PS button [5] again to remain tuned to that station.

Note:

• Do not press and hold PS button [5] for 2 seconds or longer. Doing so will trigger the auto store function and start storing stations into memory.

Setting the receiver for Diversity tuning

You can change the reception setting for the TV antenna connected to the TV tuner.

* The factory default setting is "**ON**".

1. Press and hold ADJ button [13] for 1 second or longer to switch to the adjustment selection display.
2. Press Right button [16] or Left button [15] to select "**TV DIVER**".
3. Press Up button [17] to set to "**ON**" or Down button [18] to set to "**OFF**".

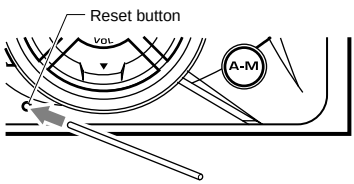
   ON:

   In the "ON" position, the TV tuner emphasizes the visual signal by choosing the antenna with the best signal strength. This requires more than one antenna on the vehicle.

   OFF:

   Set the TV Diver adjustment to the "OFF" position when only using one antenna on the vehicle.
4. Press ADJ button [13] to return to the previous mode.

8. TROUBLESHOOTING

	Problem	Cause	Measure
General	Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
		Incorrect wiring.	Consult your store of purchase.
	No sound output when operating the unit with amplifiers or power antenna attached.	Power antenna lead is shorted to ground or excessive current is required for remote-on the amplifiers or power antenna.	1. Turn the unit off. 2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. 3. Turn the unit back on. 4. Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, use an external relay to provide remote-on voltage (excessive current required).
	Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Press the reset button with a thin rod. 
Tape	Sound quality is poor.	Playback head is dirty.	Use a cleaning tape, etc., to clean the head.
		B NR button [8] is not pressed.	When listening to a tape recorded with Dolby NR, press B NR button [8] and select B NR.
CD	CD cannot be loaded.	Another CD is already loaded.	Eject the CD before loading the new one.
	Sound skips or is noisy.	CD is dirty.	Clean the CD with a soft cloth.
		CD is heavily scratched or warped.	Replace with a CD with no scratches or no warped.
	Sound is bad directly after power is turned on.	Water droplets may form on the internal lens when the car is parked in a humid place.	Let it dry for about 1 hour with the power on.

9. ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.
Take the measures described below to eliminate the problem.

	Error Display	Cause	Measure
CD	**ERROR 2**	A CD is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism and consult your store of purchase.
	ERROR 3	A CD cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
Tape	**ERROR 1**	Tape cannot be played due to defective tape such as cut tape.	Eject the tape then replace it with a new one.
	ERROR 2	Tape is caught and cannot be played.	Remove the caught or wound tape.
	ERROR 4	Tape mode cannot be detected.	This is a failure of tape mechanism and consult your store of purchase.
	ERROR 8	Tape is caught and cannot be ejected.	Eliminate the reason for which the tape is caught.
CD changer	**ERROR 2**	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism and consult your store of purchase.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
MD changer	**ERROR H**	Displayed when the temperature in the MD changer is too high and playback has been stopped automatically.	Lower the surrounding temperature and wait for a while to cool off MD changer.
	ERROR 2	An MD inside the MD changer is not loaded.	This is a failure of MD changer's mechanism and consult your store of purchase.
	ERROR 3	An MD inside the MD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	Displayed when a non-recorded MD is loaded in the MD changer.	Load a pre-recorded MD in the MD changer.

If an error display other than the ones described above appears, press the reset button. If the problem persists, turn off the power and consult your store of purchase.

10. SPECIFICATIONS

FM Tuner

Frequency Range:
87.9 MHz to 107.9 MHz

Usable Sensitivity:
11 dBf

50dB Quieting Sensitivity:
17 dBf

Alternate Channel Selectivity:
75 dB

Stereo Separation (1 kHz):
35 dB

Frequency Response (±3 dB):
30 Hz to 15 kHz

AM Tuner

Frequency Range:
530 kHz to 1710 kHz

Usable Sensitivity:
25 μV

CD Player

Frequency Response (±1 dB):
10 Hz to 20 kHz

Signal to Noise Ratio (1 kHz):
100 dB

Dynamic Range (1 kHz):
95 dB

Harmonic Distortion:
0.01%

Tape Deck

Wow & Flutter (WRMS):
0.06 %

Channel Separation (1 kHz):
45 dB

Frequency Response (±3 dB)
120µs (normal): 30 Hz to 18 kHz
70µs (CrO_2 FeCr, Metal): 30 Hz to 20 kHz

Signal to Noise Ratio
70µs (CrO_2 FeCr, Metal): 58 dB
Dolby B NR: 67dB

Audio

Maximum Power Output:
180 W (45 W × 4 ch) (EIAJ)

Continuous Average Power Output:
16 W × 4, into 4 Ω, 20 Hz to 20 kHz, 1%THD

Bass Control Action (30 Hz):
±13 dB

Treble Control Action (10 kHz):
±10 dB

Line Output Level (CD 1kHz):
1.8 V

General

Power Supply Voltage:
14.4 V DC (10.8 to 15.6 V allowable),
negative ground

Current Consumption:
Less than 15 A

Speaker Impedance:
4 Ω (4 Ω to 8 Ω allowable)

Weight / Source unit:
5.7 lb. (2.6 kg)

Weight / Remote control unit:
1 oz. (30 g) (including battery)

Dimensions / Source unit:
7″ (Width) × 3-15/16″ (Height) × 6-1/8″ (Depth)
[178 (W) × 100 (H) × 155 (D) mm]

Dimensions / Remote control unit:
1-3/4″ (Width) × 4-5/16″ (Height) × 1-1/8″ (Depth)
[44 (W) × 110 (H) × 27 (D) mm]

Notes:

• Specifications comply with EIA Standards.

• Specifications and design are subject to change without notice for further improvement.